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**BRIEF DESCRIPTION OF THE DRAWINGS**

FIG.2 in a side view shows  
a spiral spring depending from a regulating screw  
attached to arm of a jack.

FIG.3 in a side view shows  
a regulating button carried by the arm resting  
on a spring carried by a rail.

FIG.3A in a side view shows  
the spring on the rail resting in a groove under the arm.

FIG.4 in a side view shows  
the spiral spring connecting the arm to a repetition lever.

FIG.5 in a side view shows  
a spring supporting the arm, the spring opposing  
a regulating button, the arm opposing an escapement button.

FIG.6 in a side view shows a string passing through  
the repetition lever.

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DETAILED DESCRIPTION OF THE DRAWINGS

FIG.2 shows in a side view a first embodiment of the invention, a support rail 30 carrying a hammer shank flange 25 pivoting the hammer shank 11 carrying the piano hammer 10 adjoining back check 22 on the piano key 19, the flange 25 carrying a regulating drop screw 26 adjoining the end of the repetition lever 20, the flange 25 carrying a regulating screw 32 from which is dependent a convoluted spring 31 being connected to the arm 13A of the jack 13 the first end being in a hole in the screw being bent over the end of the screw, the second end being hooked onto the arm 13A of the jack 13 forcing the jack 13 to press against a spoon 27A by the regulating button 27 carried by the jack 13 and holding the jack 13 in position under the knuckle 12, the jack 13 is pivoted from the end of the wippen lever 18 pivoted from a flange 25A carried by the rail 30A, an upstanding portion 18A of the wippen lever 18 pivoting a repetition lever 20 supported by a repetition spring 14 carried by the upstanding portion 18A, the first end of the repetition lever opposing the regulating drop screw 26, the second end carrying a regulating button 21 pressing on the wippen lever 18. Upon depression of piano key 19 the capstan screw 17 on the piano key 19 lifting the wippen lever with the arm 13A of the jack 13 shortening the convoluted spring 31 into a relaxed disabled state effectuating the jack to escape from the knuckle excessive friction free with a light key 19.

FIG.3 shows in a side view a second embodiment of the invention a hammer shank flange 25 carried by the support rail 30 pivoting the hammer shank 11 carrying the piano hammer 10, the flange 25 carrying an escapement let off button 29 and a regulating drop screw 26, the regulating drop screw adjoining the first end of the repetition lever 20, the second end carrying a regulating button 21 pressing on the wippen lever 18 by a repetition spring carried by the upstanding portion 18A of the wippen lever 18 supporting the repetition lever 20, the wippen lever flange 25A carried by the rail 30A pivoting the wippen lever 18, the end of the wippen lever pivoting the jack 13 a regulating button 27 carried by the jack 13 adjoining the spoon 27A carried by the wippen lever 18, the arm 13A of the jack 13 carrying a regulating button 33, the spring 34 carried by the rail 35 adjoining the regulating button 33, the escapement let off button 29 depe-

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dependent from the flange 25 opposing the arm 13A of the jack 13. Upon depression of the piano key 19 the capstan screw 17 on the piano key 19 lifts the wippen lever 18 effectuating the regulating button 33 to disengage from the spring 34, the jack in contact with the knuckle propelling the piano hammer striking the string 23, the jack escaping from the knuckle with ease without the pressure of the spring 34 resulting in a light piano key.

FIG. 3A relates to FIG. 3 shows the spring 34 carried by the rail 35 supporting the arm 13A of the jack 13 in a groove 36 under the arm 13A of the jack 13.

FIG. 4 in a side view shows a third embodiment of the invention the convoluted spring 31 connecting the repetition lever 20 to the arm 13A of the jack 13. When the capstan screw 17 on the piano key 19 lifts the wippen lever 18 the rise of the repetition lever is stopped by the regulating drop screw 26 effectuating the convoluted spring 31 to be shortened into a relaxed disabled state disabling the regulating button 27 carried by the jack 13 to press against the spoon 27A, and enabling the jack to escape from the knuckle easily without excessive friction resulting in a light piano key.

FIG. 5 in a side view shows a fourth embodiment of the invention the end of the wippen lever 18 carrying a spring 34A supporting the arm 13A of the jack 13, the spring 34A opposing regulating button 29A and the arm 13A opposing the escapement let off button 29 dependent from the hammer shank flange 25; when the capstan screw 17 on the piano key 19 lifts the wippen lever 18 the spring 34A hits the regulating button 29A disengaging the spring 34A from the arm 13A and at the same time the end of the arm 13A hits the escapement let off button 29 effectuating the jack 13 to escape from the knuckle 12 dependent from the hammer shank 11 easily without excessive friction as the arm 13A of the jack 13 being free from the pressure of the spring 34A resulting in a light piano key.

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FIG. 6 in a side view shows a fifth embodiment of the invention a flexible means 37 connected to the arm 13A of the jack 13 passing through the repetition lever 20 to a regulating screw 32A carried by the flange 25, the flexible means being rectilinear loosely set holding the jack 13 under the knuckle 12 and holding the regulating button 27 against the spoon 27A in any position operating at low or high speed without divergence - a perfect mechanism.